

REPLACED BY  
ART 34 AMDT

What is claimed:

1. A method for infrared spectral imaging of a sample using a spectrometer and a sensor, comprising the steps of:
  - a) selecting a first retardation of the spectrometer;
  - b) illuminating the sample with infrared light emitted by the spectrometer;
  - c) sending a trigger signal from the spectrometer to the detector, thereby causing recording of a data point by the detector;
  - d) selecting another retardation of the spectrometer;
  - 10 e) repeating steps (b)-(d) until a predetermined number of retardations have been selected; and
  - f) repeating steps (a)-(e) until a predetermined number of interferograms of the sample have been collected.
- 15 2. A method for infrared spectral imaging of a sample using a spectrometer and a sensor, comprising the steps of:
  - a) selecting a scanning speed of the spectrometer;
  - b) causing the spectrometer to scan the sample with infrared light;
  - c) triggering the detector to measure absorption of light by the sample upon starting the scan; and
  - 20 d) repeating steps (b)-(c) a predetermined number of times.